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OM protein - protein search, using sw model

Run on: September 12, 2001, 11:52:51 ; Search time 12.26 seconds
(without alignments)
429.945 Million cell updates/sec

Title: US-08-012-269A-2
Perfect score: 1428
Sequence: 1 MGNNCYVNVVIVLLVGCCK.....DACSCRCPOEEGGGGYEL 256

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 197339 seqs, 20590346 residues

Total number of hits satisfying chosen parameters: 197339

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1428	100.0	256	1	US-08-236-918A-6
2	1428	100.0	256	5	PCT-US96-03965-2
3	1085	76.0	191	3	US-08-974-022-52
4	795	55.7	255	1	US-08-236-918A-8
5	795	55.7	255	2	US-08-816-605-9
6	795	55.7	255	5	PCT-US96-03965-8
7	656	45.9	219	2	US-08-816-605-2
8	215	15.1	625	3	US-08-996-139-15
9	215	15.1	625	4	US-08-995-659-15
10	208.5	14.6	276	4	US-09-041-886-27
11	208.5	14.6	277	4	US-09-042-785A-10
12	205.5	14.4	451	3	US-08-996-139-4
13	205.5	14.4	451	4	US-08-995-659-4
14	205.5	14.4	591	3	US-08-996-139-2
15	205.5	14.4	591	4	US-08-995-659-2
16	205.5	14.4	616	3	US-08-996-139-6
17	205.5	14.4	616	4	US-08-995-659-6
18	203.5	14.3	228	3	US-08-911-423-2
19	202.5	14.2	277	4	US-08-147-784-2
20	202.5	14.2	277	4	US-08-195-967-2
21	201.5	14.1	228	3	US-08-911-423-6
22	200	14.0	461	4	US-09-042-785A-7
23	197	13.8	241	3	US-08-911-423-4
24	197	13.8	461	1	US-08-385-229-2
25	197	13.8	461	2	US-08-650-000-2
26	197	13.8	461	4	US-08-477-347-3
27	197	13.8	461	6	5395760-2

28 188 13.2 401 3 US-08-974-022-6
29 188 13.2 401 4 US-09-042-785A-12
30 186.5 13.1 289 4 US-09-042-785A-11
31 185 13.0 300 2 US-08-794-796-2
32 185 13.0 474 2 US-08-650-000-4
33 185 13.0 474 4 US-09-042-785A-8
34 185 13.0 474 6 5395760-4
35 184 12.9 227 3 US-08-974-022-48
36 183 12.8 486 1 US-08-243-010-1
37 181 12.7 197 3 US-08-974-022-49
38 181 12.7 518 1 US-08-385-229-4
39 180.5 12.6 253 4 US-09-042-785A-4
40 180.5 12.6 311 3 US-08-911-423-8
41 180.5 12.6 605 4 US-09-042-785A-23
42 180.5 12.6 655 3 US-08-959-382-2
43 179.5 12.6 197 2 US-08-505-606-1
44 179 12.5 401 3 US-08-974-022-2
45 178.5 12.5 283 5 PCT-US96-12374-2

ALIGNMENTS

RESULT 1
US-08-236-918A-6
; Sequence 6, Application US/08236918A
; Patent No. 5674704
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-LBB Ligand
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple 7.5.3
; SOFTWARE: Microsoft Word, Version #6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/236,918A
; FILING DATE: 06-May-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/060,843
; FILING DATE: 07-May-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Anderson, Kathryn A.
; REGISTRATION NUMBER: 32,172
; REFERENCE/DOCKET NUMBER: 2801-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO.: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 256 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-236-918A-6

Query Match 100.0%; Score 1428; DB 1; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.3e-118;
Matches 256; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGNCCYNNVVIVLLVGCERKGVAVQNSCDNCPGTFCKRYNPVCKSCPPSTFSISGGQPN 60
DB 1 MGNCCYNNVVIVLLVGCERKGVAVQNSCDNCPGTFCKRYNPVCKSCPPSTFSISGGQPN 60
QY 61 CNICRVACAGYFRFKKFCSSSTHNAECIEGFHCLGPQCTRCCKDCRPGQELTKQCKTCS 120
DB 61 CNICRVACAGYFRFKKFCSSSTHNAECIEGFHCLGPQCTRCCKDCRPGQELTKQCKTCS 120
QY 121 LGTFNDQNGTGVCRPWTNCSLDGRSVLKTGTTEKDVVCGPPVVSFSPSTTISVTPEGGPG 180
DB 121 LGTFNDQNGTGVCRPWTNCSLDGRSVLKTGTTEKDVVCGPPVVSFSPSTTISVTPEGGPG 180
QY 181 GHSQVLTFLALTSALLALIFITLLFSVLKWKIRKPPHIFKQPKKTTGAAQEDACS 240
DB 181 GHSQVLTFLALTSALLALIFITLLFSVLKWKIRKPPHIFKQPKKTTGAAQEDACS 240
QY 241 CRCPQEEGGGGYEL 256
DB 241 CRCPQEEGGGGYEL 256

RESULT 2

PCT-US96-03965-2
; Sequence 2: Application PC/TUS9603965
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung Se
; APPLICANT: Kang, Chang-Yuil
; TITLE OF INVENTION: Monoclonal antibody against human
; TITLE OF INVENTION: receptor 4-1BB
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnard, Brown & Michaels
; STREET: 306 East State Street, Suite 220
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/03965
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,796
; FILING DATE: 16-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/012,269
; FILING DATE: 01-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/922,996
; FILING DATE: 30-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/267,577
; FILING DATE: 07-NOV-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Michaels, Christopher A
; REGISTRATION NUMBER: 34,390
; REFERENCE/DOCKET NUMBER: KW05
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 607-273-1711
; TELEFAX: 607-273-2609
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 256 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US96-03965-2

Query Match 100.0%; Score 1428; DB 5; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.3e-118;
Matches 256; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGNCCYNNVVIVLLVGCERKGVAVQNSCDNCPGTFCKRYNPVCKSCPPSTFSISGGQPN 60
DB 1 MGNCCYNNVVIVLLVGCERKGVAVQNSCDNCPGTFCKRYNPVCKSCPPSTFSISGGQPN 60
QY 61 CNICRVACAGYFRFKKFCSSSTHNAECIEGFHCLGPQCTRCCKDCRPGQELTKQCKTCS 120
DB 61 CNICRVACAGYFRFKKFCSSSTHNAECIEGFHCLGPQCTRCCKDCRPGQELTKQCKTCS 120
QY 121 LGTFNDQNGTGVCRPWTNCSLDGRSVLKTGTTEKDVVCGPPVVSFSPSTTISVTPEGGPG 180
DB 121 LGTFNDQNGTGVCRPWTNCSLDGRSVLKTGTTEKDVVCGPPVVSFSPSTTISVTPEGGPG 180
QY 181 GHSQVLTFLALTSALLALIFITLLFSVLKWKIRKPPHIFKQPKKTTGAAQEDACS 240
DB 181 GHSQVLTFLALTSALLALIFITLLFSVLKWKIRKPPHIFKQPKKTTGAAQEDACS 240
QY 241 CRCPQEEGGGGYEL 256
DB 241 CRCPQEEGGGGYEL 256

RESULT 3

US-08-974-022-52
; Sequence 52: Application US/08974022
; Patent No. 6015938
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTEOPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/974,022
; FILING DATE: 12-DEC-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/577,788
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-974-022-52

Query Match 76.0%; Score 1085; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 1.6e-88;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db	61	TCDTCRCKGVFRPRK	ECSSSTSNACEDCTGCFHCLGAGCSWCEQDCKQGQELTKGCKDC	120
Qy	120	SLGTFENDONGTGVCRPWTNCSL	DGSRSLVKTGTTBKDVVCGPPVVSFSPSTTISVTPTEGGP	179
Db	121	CFGTFNDOK-RGICRPWTNCSL	DGSKVLVNGTRKEDVVCGPSADLSPGAS-SVTPP-AP	177
Qy	180	G---GHSIQVLTFLAFLS-ALL	LALIFITLLFSVLKWIIRKPFPHIFKPFKTKTGAAG	235
Db	178	AREPGHSPQIIISFFALTSTALL	FLFLFLRFSVVKRGRKKLLYIFKQPEMPRVTTQ	237
Qy	236	EDACSRCPQEEGG	250	
Db	238	EDGSCRFPEEEGG	252	

RESULT 5
 US-08-816-605-9
 : Sequence 9, Application US/08816605
 : Patent No. 5874240
 : GENERAL INFORMATION:
 : APPLICANT: Ni, Jian
 : APPLICANT: Yu, Guo-Liang
 : APPLICANT: Gentz, Reiner
 : TITLE OF INVENTION: Human 4-IBB Receptor Splicing Variant
 : NUMBER OF SEQUENCES: 9
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Human Genome Sciences, Inc.
 : STREET: 9410 Key West Avenue
 : CITY: Rockville
 : STATE: MD
 : COUNTRY: USA
 : ZIP: 20850
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/816,605
 : FILING DATE: 13-MAR-1997
 : CLASSIFICATION: 435
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Brookes, A. Anders
 : REGISTRATION NUMBER: 36,373
 : REFERENCE/DOCKET NUMBER: PF254
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 301-309-8504
 : TELEFAX: 301-309-8512
 : INFORMATION FOR SEQ ID NO: 9:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 255 amino acids
 : TYPE: amino acid
 : TOPOLOGY: single
 : STANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : US-08-816-605-9

Query Match	55.7%;	Score 795;	DB 2;	Length 255;
Best Local Similarity	58.4%;	Pred. No. 7.7e-63;		
Matches 149:	Conservative	31;	Mismatches 67;	Indels 8;
	Gaps	6;		

QY 1 MGNRCYNVWIVLLLVGCEKRVAGVQNSCDNCQPGTFC-KKYNPVCCKSPFSTFSLGQP 39
|||:|||: |||: |:: ||| |||| | | |||:|||| |||
Db 1 MGNSCYNIVATLLLVLNFERLSLQDPCSNCPAGTCFDNNRNQICSPCPNSSFSGGQR 60

[illegible]

[illegible]

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Db      61   TCDICROCKGVFRTRKESSTSNABECDCTPGFCHLACAGCSMCEODCKQGOELTKKGCKDC 12
QY      120   SLGTFENDQNGTGYCRPWTNCSLDGRSVLYKTGTTEKDWDVCGPPVVVSFPSTTSISVTPEGGP 179
          ||||| :|||||:|||||:||||| :|||||:||||| :||||| :||||| :
Db      121   CFGTFNDQK -RGICRPWNTNCSLDGKSVLVNGTKERDWWCVGPSADLSPGAS-SVTTP-AP 177
QY      180   G---GHSLOVLTLFLALTS-ALLALLIFITLLSVLKWIKKPHFIKOPFKTTGAQE 235
          ||| :||: ||||| ||| | :||| ||||| ||| :||||| : |||
Db      178   AREFGHSPQIISFFALTSPTALLFLFLTRFSVKRGRKKLLYIFKOPFMRPVOTTOE 237
QY      236   EDACSCRCPOEEEG 250
Db      238   EDGSCRFPEEEGG 252

RESULT              7
US-08-816-605-2
; Sequence 2, Application US/08816605
; Patent No. 5874240
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Gentz, Reiner
; TITLE OF INVENTION: Human 4-IBB Receptor Splicing Variant
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,605
; FILING DATE: 13-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8512
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 219 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-816-605-2

Query Match           45.9%; Score 656; DB 2; Length 219;
Best Local Similarity 51.2%; Pred. No. 1.1e-50;
Matches 130; Conservative 27; Mismatches 55; Indels 42; Gaps

Qy      1   MGNNCYNVVVIVLLVCERKVGAVONSCDNCPQTFCRKYNPVCKSCPPTFFSSIGQP 60
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Db      1   MGNSCYNIVATLLVLINFTSRSLQDPSCNCP----- 32
Qy      61   CNICRVCAQGFVRKFKFCSSTHNABCEIEGFHCILGPQCTRCEKDCRPQBELTKQGCKTCS 120
          ||||| :|||||:|||||:||||| :|||||:||||| :||||| :||||| :
Db      33   -----AGVFRTRKESSTSNABECDCTPGFCHLACAGCSMCEODCKQGOELTKKGCKDC 85
Qy      121   LGTFENDQNGTGYCRPWTNCSLDGRSVLYKTGTTEKDWDVCGPPVVVSFPSTTSISVTPEGGP 180
          ||||| :|||||:|||||:||||| :|||||:||||| :||||| :||||| :
Db      86   FGTFENDQK -RGICRPWNTNCSLDGKSVLVNGTKERDWWCVGPSADLSPGAS-SVTTP-APA 142
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QY 181 --GHSQVLTFLALTS-ALLLALIFITLLFSVLKWKRPFFHFKOPEKKTGAAQEE 236
Db 143 REPQSQIISFFLALSTALLFLFLFLFSVVKRKKLLYIFKQPFMRPVOTTOEE 202
QY 237 DACSCRCPOEEGG 250
Db 203 DGSCRCFPEEEGG 216

RESULT 8
US-08-996-139-15
; Sequence 15, Application US/08996139
; Patent No. 601729
; GENERAL INFORMATION:
; APPLICANT: Anderson, Dirk M.
; APPLICANT: Galibert, Laurent
; APPLICANT: Maraskovsky, Eugene
; TITLE OF INVENTION: Receptor Activator of NF-kappaB
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation, Law Department
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/996.139
; FILING DATE: 22 DECEMBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 60/064,671
; FILING DATE: 14 OCTOBER 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/813,509
; FILING DATE: 07 MARCH 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/772,330
; FILING DATE: 23 DECEMBER 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia Anne
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2851-A
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-996-139-15

Query Match 15.1%; Score 215; DB 3; Length 625;
Best Local Similarity 28.6%; Pred. No. 2.6e-11;
Matches 72; Conservative 27; Mismatches 91; Indels 62; Gaps 14;
QY 28 CDNCQPGTF-CRKNP-----VCKSCPSTF--SSIGQPNICRVCAGYFRFKKFCSSTH 81
Db 48 CSRCEPGKYLSSKCTPTSDSVCLPCGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNH 107
QY 82 NA--ECRCIEGFH---CLGPGCTRCCKCRPG-----QELTKQG-CKTCSLGFENDQ- 127
Db 108 TAPPRCACTAGYHNSDC---ECCRNTECAPGFGAGHPLOLNKDTVCTPCLLGFFSDVF 164
QY 128 NGTGVCRPWTNCSIDGRSVLKTGTTEKDVVCGPPVVSFSPSTTISVTP-EGGPGHSLQV 186

Db 165 SSTDCKPWTNCTLLGKLEAHQGTTESDVVC-----SSMTLRRPPKRAQAYLSLIV 217
QY 187 LTLFLALTSALLLALIF-----ITLLFSVLKWKRPFFHFKOPEKKTGAAQEE 238
Db 218 LLLFISV--VVAAIIFGVYVRKGGKALTANLWNV-----NDA 254
QY 239 CSCRCPOEEGG 250
Db 255 CSSLGNKESG 266

RESULT 9
US-08-995-659-15
; Sequence 15, Application US/08995659
; Patent No. 6242213
; GENERAL INFORMATION:
; APPLICANT: Anderson, Dirk M.
; APPLICANT: Galibert, Laurent
; APPLICANT: Maraskovsky, Eugene
; TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation, Law Department
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/995,659
; FILING DATE: 22 DECEMBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 60/064,671
; FILING DATE: 14 OCTOBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/813,509
; FILING DATE: 07 MARCH 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/772,330
; FILING DATE: 23 DECEMBER 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia Anne
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2852-A
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-995-659-15

Query Match 15.1%; Score 215; DB 4; Length 625;
Best Local Similarity 28.6%; Pred. No. 2.6e-11;
Matches 72; Conservative 27; Mismatches 91; Indels 62; Gaps 14;
QY 28 CDNCQPGTF-CRKNP-----VCKSCPSTF--SSIGQPNICRVCAGYFRFKKFCSSTH 81
Db 48 CSRCEPGKYLSSKCTPTSDSVCLPCGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNH 107

146 CPVGFESNVSFAFEKCHPMTSETKDLVQQAGTNDVVCQGQ----- 189
 178 GPGGHSQWLTLFLAATSALLALIFITLLFSVLKWRKFFHIFKQPK-----K 228
 190 -DRLRALVVIPIIFGLFALVLVLEIK---KVAKKPTNKAHPKQEPQEIINFDDLPGS 245
 229 TTGAQEEEDACSCRCPEEEG 249
 246 NTAAAPVQETLHGCPVTQEDG 266

RESULT 11
US-09-042-785A-10
; Sequence 10, Application US/09042785A
; Patent No. 6194151

APPLICANT: BUSINESS, SUMMITTOS
 TITLE OF INVENTION: NOVEL MOLECULES OF THE TNF RECEPTOR SUPERFAMILY
 TITLE OF INVENTION: AND USES THEREFOR
 NUMBER OF SEQUENCES: 31
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD, LLP
 STREET: 28 State Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/042,785A

```

: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617)227-7400
: TELEFAX: (617)742-4214
: INFORMATION FOR SEQ ID NO: 10:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 277 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: peptide
: FRAGMENT TYPE: internal
: US-09-042-785A-10

```

Qy 18 CEKVGAVQNS--CDNCQPQ-----TFCRKYNPV-CKSCPSTF-SSIGQPNCNICRVCAg 69
| | : || | |||| | : | | | | : | : | : |
Db 26 CREKOYLINSOCCICOPGOKLVSDTEFTETCLPCGESEFLDWNRETHCHOHKYCDP 85

[illegible]

Db 190 -DRRLALVIVIIINGILFAILLVAVFIK---KVAKKPTNNKPHKQEPQELNPPDLLPGS 245

QY 229 TTGAAOEADACSCRCPOEES 249

Db 246 NTAAPVQETLHGCPVYQEDS 266

```

RESULT 123333
US-08-996-139-4
Sequence 4, Application US/08996139
Patent No. 6017729
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Markovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-996-139-4

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	Query Match	14.48;	Score 205.5;	DB 3;	Length 451;
	Best Local Similarity	29.98;	Pred. No. 1.2e-10;		
	Matches 61; Conservative	25;	Mismatches 71;	Indels 47;	Gaps 11;
QY	28 CDNQCPGTFCKR-----YNPYCKSPSTF--SSIGGPNCNCRVC-----AGYF 71	:	:	:	:
	: : : :	:	:	:	:
Db	47 CNKEPGRYMSKCTTTSDSYCLPCGPDEYLDSWNEEDKLIHKCYDGKALVAVAG-- 104	:	:	:	:
QY	72 RFFKFCSTTHAEECICIGFH-----CLGPGTCRCCKDRPG-----QELTKQG-CRTCS 120	:	:	:	:
	: : : :	:	:	:	:
Db	105 -----NSTETPRRCACTAGYHMSODP---ECCRRNTBCAPGLGAQNPLDNLKDVFCKPCL 155	:	:	:	:
QY	121 LGTFNDQ-NGGVGCPRMNCSLDGSVLAKTGTLEDDVYCGRPVSFSPTSTISVPDEGP 179	:	:	:	:
	: : : :	:	:	:	:

Db 156 AGFSDAEFSSTDKCRPMTNCFLEKRRVHHGTENSDAVCSSLPARKPPNEPHYLPGL-- 2133

QY 180 GGHSIQVLTFLPLATSAALLALIF 203
I : I I I : I : I I I
Db 214 ----LITLLEFASV--ALVAALIF 231

```

RESULT 13
US-08-995-659-4
Sequence 4, Application US/08995655
Patent No. 6242213
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galbert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/995,659
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US95 60/064,671
FILING DATE: 14 OCTOBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US95 08/813,509
FILING DATE: 07 MARCH 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US95 08/772,330
FILING DATE: 23 DECEMBER 1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2852-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206)587-0430
TELEFAX: (206)233-0644
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-995-659-4

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[illegible]

```

Db      131 AGYSDAFSTDCRPWTNCTFLGKRVHHGTGKSDAVCSSLPARKPPNHVYLPG---189
Qy      180 GGHSLOVLTLFLALTSALLLALIF 203
Db      189 ----LIILLFASV--ALVAAILF 206

RESULT 15
US-08-995-659-2
; Sequence 2, Application US/08995659
; Patent No. 6242213
; GENERAL INFORMATION:
; APPLICANT: Anderson, Dirk M.
; APPLICANT: Galibert, Laurent
; APPLICANT: Maraskovsky, Eugene
; TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation, Law Department
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/995,659
; FILING DATE: 22 DECEMBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 60/064,671
; FILING DATE: 14 OCTOBER 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/813,509
; FILING DATE: 07 MARCH 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USSN 08/772,330
; FILING DATE: 23 DECEMBER 1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia Anne
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2852-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 591 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-995-659-2

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Query Match	14.4%	Score	205.5	DB 4	Length	591			
Best Local Similarity	29.9%	Pred. No.	1.7e-10						
Matches	61	Conservative	25	Mismatches	71	Indels	47	Gaps	11
Qy	28	CDNCQPGTFCKK	-----YNPVCKSCPPSTF--SSTGGGPNMCNRVC-----	AGYF	71				
		: : : : :	: : : : :	: : : : :	: : : : :				
Db	22	CNKCEPGYMSSKCTTTSDSVCLPGCPDEYLDWSNEEDKCLLHKVCDTGKALVAVVAG--	79						
Qy	72	RFKFKCSSTHNAECETGFH-----CLGPGQCTREKDCRPG-----	QELTKQG--CKTCS	120					
		: : : : :	: : : : :	: : : : :	: : : : :				
Db	80	-----NSTTPRCACATAGYHWSODC-----ECCRRTTECAPGLGAHPHLPOLANKDITVCRPCL	130						

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 10, 2001, 18:00:41 ; Search time 1345.95 Seconds
(without alignments)
2662.876 Million cell updates/sec

Title: US-08-012-269A-1

Perfect score: 2350

Sequence: 1 atgtccatgaactgctgagt.....ctttctcgtagtagac 2350

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1350349 seqs, 763140611 residues

Total number of hits satisfying chosen parameters: 2700698

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_NA_New.*

- 1: /cgn2.6/ptodata/1/pna/PCT_NEW_COMB.seq.*
- 2: /cgn2.6/ptodata/1/pna/US06_NEW_COMB.seq.*
- 3: /cgn2.6/ptodata/1/pna/US07_NEW_COMB.seq.*
- 4: /cgn2.6/ptodata/1/pna/US08_NEW_COMB.seq.*
- 5: /cgn2.6/ptodata/1/pna/US09_NEW_COMB.seq.*
- 6: /cgn2.6/ptodata/1/pna/US60_NEW_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2347	99.9	2350	4	US-08-012-269A-1
2	339.2	14.4	838	5	US-09-877-336-1
3	339.2	14.4	1599	5	US-09-760-455-11
4	338.8	14.4	1453	5	US-09-760-455-31
5	338.8	14.4	1453	5	US-09-760-485-387
6	333.4	14.2	377	5	US-09-724-671-6896
7	213.2	9.1	458	5	US-09-909-627-9553
8	179.8	7.7	1669	5	US-09-760-455-26
9	140.4	6.0	460	5	US-09-904-809-5818
10	128	5.4	805	5	US-09-760-455-45
11	128	5.4	805	5	US-09-760-485-443
12	84.6	3.6	575	5	US-09-912-292-36499
13	66	2.8	429	5	US-09-909-629-37994
14	65	2.8	428	5	US-09-909-629-37995
15	58.4	2.5	284	5	US-09-760-455-44
16	58.4	2.5	284	5	US-09-760-485-319
17	51.8	2.2	700	5	US-09-735-271-465
18	50	2.1	637	5	US-09-764-891-8267
19	50	2.1	638	5	US-09-764-891-8266
20	50	2.1	5876	5	US-09-764-891-8264
21	48.4	2.1	6317	5	US-09-764-891-6479
22	47.4	2.0	501	5	US-09-824-518-2272
23	46.2	2.0	4369	5	US-09-764-877-2824
24	45.2	1.9	465	5	US-09-864-761-11570
25	45.2	1.9	4998	5	US-09-465-978A-50
26	45.2	1.9	32217	5	US-09-764-902-1864
27	45.2	1.9	80970	5	US-09-803-736-704

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28 45.2 1.9 125411 5 US-09-803-736-1412 Sequence 1412, Ap
29 45 1.9 439 5 US-09-906-555-12365 Sequence 12365, A
30 45 1.9 2139 1 PCT-US01-08556-1034 Sequence 1034, Ap
c 31 45 1.9 3502 5 US-09-758-453-187 Sequence 187, App
32 45 1.9 3796 5 US-09-652-125A-7813 Sequence 7813, App
c 33 44.6 1.9 494 5 US-09-504-576A-13112 Sequence 13112, A
c 34 44.4 1.9 103576 5 US-09-803-736-13 Sequence 13, Appl
-35 44 1.9 90050 5 US-09-893-238-5 Sequence 5, Appl
36 43.2 1.8 13021 5 US-09-764-854-612 Sequence 612, App
37 43.2 1.8 13021 5 US-09-764-861-55 Sequence 55, Appl
c 38 42.6 1.8 893 5 US-09-861-478-6934 Sequence 6934, Ap
39 42.4 1.8 60 5 US-09-908-975-14542 Sequence 14542, A
40 42.4 1.8 60 6 US-60-287-724-14542 Sequence 58, Appl
41 42.4 1.8 3503 5 US-09-823-038A-58 Sequence 600, App
c 42 42.2 1.8 99725 5 US-09-803-736-600 Sequence 1902, Ap
43 41.8 1.8 407 5 US-09-611-527A-1902 Sequence 650, App
c 44 41.6 1.8 205 5 US-09-617-675-650 Sequence 1167, Ap
c 45 41.6 1.8 117585 5 US-09-803-736-1167

```

ALIGNMENTS

```

RESULT 1
US-08-012-269A-1
; Sequence 1, Application US/08012269A
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: MURINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT APPLICATION NUMBER: US/08/012.269A
; PRIOR FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: US 07/922.996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267.572
; PRIOR FILING DATE: 1988-11-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2350
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(2350)
; OTHER INFORMATION: n = A,T,C or G
US-08-012-269A-1

```

```

Query Match 99.9%; Score 2347; DB 4; Length 2350;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2350; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 atgtccatgaactgctgagtagataaacacagcaggggatctctctaaaggaattatta 60
Db 1 atgtccatgaactgctgagtagataaacacagcaggggatctctctaaaggaattatta 60
Qy 61 ctacaccaggaaggaacacattcgacacaggaaggaagcctgtcacagaaacacag 120
Db 61 ctacaccaggaaggaacacattcgacacaggaaggaagcctgtcacagaaacacag 120
Qy 121 tgtcctgtgcatgtgacatttcgcacatgggaaacaaactgttacaacgtggtggtcattgt 180
Db 121 tgtcctgtgcatgtgacatttcgcacatgggaaacaaactgttacaacgtggtggtcattgt 180
Qy 181 gctcgtcgtagtgagtgagaggggtggagcgcgtgcagaaactcctgtgataactgtca 240
Db 181 gctcgtcgtagtgagtgagaggggtggagcgcgtgcagaaactcctgtgataactgtca 240
Qy 241 gctcgtcgtacttctgcagaaatacaatcccagctctgcaagagctgccctccaagtacctt 300
Db 241 gctcgtcgtacttctgcagaaatacaatcccagctctgcaagagctgccctccaagtacctt 300

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```

: TITLE OF INVENTION: METHODS OF USING HUMAN RECEPTOR ON
:
: TITLE OF INVENTION: PROTEIN 4-11B
:
: FILE REFERENCE: 740.011US3
:
: CURRENT APPLICATION NUMBER: US/09/877,336
:
: CURRENT FILING DATE: 2001-06-08
:
: PRIOR APPLICATION NUMBER: 09/007,097
:
: PRIOR FILING DATE: 1998-01-14
:
: PRIOR APPLICATION NUMBER: 08/409,851
:
: PRIOR FILING DATE: 1995-03-23
:
: PRIOR APPLICATION NUMBER: 08/122,796
:
: PRIOR FILING DATE: 1993-09-16
:
: NUMBER OF SEQ ID NOS: 10
:
: SOFTWARE: FastSeq for Windows Version 4.0
:
: SEQ ID NO 1
:
: LENGTH: 838
:
: TYPE: DNA
:
: ORGANISM: Homo sapiens
:
: US-09-877-336-1

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Query Match 14.4%; Score 339.2; DB 5; Length 838;
Best Local Similarity 67.8%; Pred. No. 1.7e-72;
Matches 537; Conservative 0; Mismatches 243; Indels 12; Gaps 4;

Qy	119	agtgctcgtgcatgtagacatttcgccatgggaacaacactggtttacaacgtagtggtggtcatt	178
Db	14	agtatcatacctgtcgagagatttcatactgggaacacagctgtttacaacaatagtgcacat	73
Qy	179	gtcgtcgtcagtgggctgtgagaagtgaggcgtgcagaaactcctcgtgataaactct	238
Db	74	ctgtgtcgttctccaactttgagaggacaagatcatctgcagatcctgtgtagtaactgc	133
Qy	239	cagctcgtgattcttcgcagaaaaatc---aatccagctgcagaagctgccctccaagt	295
Db	134	ccagctcgtgataataacaggaatacagatttgcagtcctcgtcctccaat	193
Qy	296	acctctccagcatagtgagacgcggaactgtatacatctgcagagtggtgcaggtctat	355
Db	194	agttctccagcgcagtgacaaaagacctgtgacatacgaggcagtgtaaaagtgtt	253
Qy	356	tteaggttcaagaagtttgcctctcaccacaacgcggagtggtgagtgcatctgaagaa	415
Db	254	tteaaggaccggaaggagtgcttccaccagcaatgcagagtgtagtcgactccaggg	313
Qy	416	ttccattgcttgggccacagtcgaccagatgtgaaaaggaactgcagccctggccaggag	475
Db	314	tttcactgcctggggcagatgcagcatgtgtgaacaggatttgtagacaaaggtcaagaa	373
Qy	476	ctaacgaagcagggttgcaaaaacctgtagcttggtgggaactttaatgaccagaacggtact	535
Db	374	ctgacaaaaaaggttgaagactgtgtcttgggacatttaacgatcagaaaacg---t	430
Qy	536	ggcgtctgtgcacctggacgaactgctctagacggaaggtctgtgttaagaccgag	595
Db	431	ggcatctgtgcacctggacaaactgtctcttggatggaaagtctgtgttgtaatggag	490
Qy	596	accacggagaagcagctggtgtgtgacccccctgtggtgagctctctccacg---tacc	652
Db	491	acgaaggagaggagcgtggtctgtgaccatctccagccgacctctccggagagatcc	550
Qy	653	accattctgtgactccagaggagaccaggaaggcactccttgcaggtcccttaactctg	712
Db	551	tcgtgacctccgctgccctgcgagagcgaagcgaactctccgcagatcatctcttc	610
Qy	713	ttctggcgtgacatag---gcttgcgtggccctgatcttaactactctctgttc	769
Db	611	ttctgtcgtgcactgcagctgctgtctctcctgctgtcttctcactcagctccgttc	670
Qy	770	tcgtgtcctaaatggatcaggaaaaaattccccccacatatccaagcaaacatttaagaag	829
Db	671	tcgtgtgttaaacggggccaggaagaactcctctgtatataccaacaacatttaagaa	730
Qy	830	accactggagcagctcaagagggaagatgctgtgactgcgcgtagtctccacaggaagaagaa	889

```

Db      731 ccagtacaaactactcaaggaggaatgctgtagctgccattccagaagaagaaga 790
          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
Oy      890 ggaggaggagga 901
          |||||
Db      791 ggaggatgtgaa 802

RESULT      3
; Sequence 11, Application US/09760455
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ70
; CURRENT APPLICATION NUMBER: US/09760,455
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 1599
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-760-455-11

Query Match      14.4%      Score 339.2; DB 5; Length 1599;
Best Local Similarity 67.8%; Pred. No. 2.2e-72;
Matches 537; Conservative 0; Mismatches 243; Indels 12; Gaps

```

Query Match	14.4%;	Score 339.2;	DB 5;	Length 1599;
Best Local Similarity	67.8%;	Pred. No. 2.2e-72;		
Matches 537: Conservative	0;	Mismatches 243;	Indels 12;	Gaps 4;

[illegible]

[illegible]

```

RESULT      6
US-09-724-671-6896
; Sequence 6896, Application US/09724671
; GENERAL INFORMATION:
; APPLICANT: Watson, James D
; APPLICANT: Murison, James G
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 105002
; CURRENT APPLICATION NUMBER: US/09/724,671
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 21907
; SOFTWARE: FastSEQ for Windows version 4.0
; SEQ ID NO 6896
; LENGTH: 377
; TYPE: DNA
; ORGANISM: Mouse
US-09-724-671-6896

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	Query Match	14.28;	Score 333.4;	DB 5;	Length 377;
	Best Local Similarity	98.3%;	Pred. No. 3.4e-71;		
	Matches 337;	Conservative	0;	Mismatches	6; Indels 0; Gaps 0;
QY	106	cacagaaaacacaggtcctgtgcattgcacatttcgcatggaacaactgttaca	165		
Db	35	ccctgagatcgaaagtgccctgtgcattgtgcatttcgcatggaacaactgttaca	94		
QY	166	cgtggtggtcattgtcgtcgtagtgggctgtgagaagtgggagccgtgcagaactc	225		
Db	95	cgtggtggtcattgtcgtcgtagtgggctgtgagaagtgggagccgtgcagaactc	154		
QY	226	ctgtgataactgtcagcctggtactttctgcagaaaaatacaatcctgcagagactg	285		
Db	155	ctgtgataactgtcagcctggtactttctgcagaaaaatacaatcctgcagagactg	214		
QY	286	ccctcccaagtacccttcccagcatagtggaacgccgaactgtaacctctgcagagtgtg	345		
Db	215	ccctcccaagtacccttcccagcatagtggaacgccgaactgtaacctctgcagagtgtg	274		
QY	346	tgcaggctatttcaggttccaagaagttttgctcctctaccaccaacgcggaggtgtgagtg	405		

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Db 275. tgcaggctatttcagggtccaagaagattttgctctctaccacaaecgcgagtgtagtg 334
Qy 406 catigaaggattccattgcttggggccacagtgccaccagatgt 448
|||||
Db 335 catigaaggattccattgcttggggccacagtgccaccagatgt 377
|||||

RESULT 7
US-09-909-627-9553
; Sequence 9553, Application US/09909627
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-766
; CURRENT APPLICATION NUMBER: US/09/909,627
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 09/277,227
; PRIOR FILING DATE: 1999-03-23
; NUMBER OF SEQ ID NOS: 23680
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9553
; LENGTH: 458
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(458)
; OTHER INFORMATION: n = A,T,C or G
US-09-909-627-9553

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	Query Match	9.1%	Score 213.2;	DB 5;	Length 458;
	Best Local Similarity	69.7%;	Pred. No. 5.1e-42;		
Matches	319; Conservative	0;	Mismatches 133;	Indels	6; Gaps
Qy	136	acatttgcgatgggaacaactttacaacgttggtgctcatgtcgtcgtctagtggg	195		
Dy	3	agatttcacatgggaacacgctgttaacacatagtagccacctgttgtcgctccta	62		
Qy	196	ctgtgagaaggctggagcccgcgcaaacactccttgataactctgcagcgttgactttctg	255		
Dy	63	ctttgagaggcaacagatcaattgvcggatcctctgtagtaactgccagctggtacattctg	122		
Qy	256	cagaaaaaac-----aatccagctctcaagagctgccctccaagtaccttcccagcatag	312		
Dy	123	tgataataacaggaaatcacgatttcagttccctctcctcaaaatgatttccagcgcagg	182		
Qy	313	tggacagccgaactgtataactctcagagtgctgtgcagggtatttcaggttcaaagaagt	372		
Dy	183	tggcaaaaggaccctgtgacatatctgctgagctgttaaaggcgttttcaggaccggaagga	242		
Qy	373	tgtctctctaccacaacacgcgcagtgctgagtgcatggaaggattccattgctggggcc	432		
Dy	243	gtgttctccaccagcatcagagtgctgactgccagggtttcaactgctcgggggc	302		
Qy	433	acagtgcaccagatgtgaaaaggactcaggccctgcccaggagctaacgaagcagggttg	492		
Dy	303	aagatgcagcatgtgtgaacaggattgtaaacaacgttcaagaactgacaaaaaagggttg	362		
Qy	493	caaaacctgtagcttgggaacatttaatgaccagaaocgttactggcgctgtgcgacctg	552		
Dy	363	taagactgtgtgcttgggacatttaacgatcagaaacg---tggcatctgtgcgacctg	419		
Qy	553	gacgaactgtctctagacggaaggctctgtgcttaaga	590		
Dy	420	qacaaactgtcttctgatatgaaagctctactgtgata	457		

RESULT 8
US-09-760-455-26
; Sequence 26, Application US/09760455
; GENERAL INFORMATION:


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Db 277 CGACCTGACAAACGTTCTTTGGATGGAAGTCTGCTTGTGAATGGACGAGAG 218
Oy 605 aagacgtgtgtgtgtgagcccccgtgtgtgagcttctccag---taaccacattct 661
Db 217 AGGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 158
Oy 662 gtgactccagagggagaccagagagctctctctctctctctctctctctctctct 721
Db 157 CCGCTGCCCCGCGAGAGAGCCAGACACTCTCCGAGATATCTCTCTCTCTCTCT 98
Oy 722 ctgacatcg---gtctgtctgtgcccctgacatctcaatctctctctctctctct 778
Db 97 CTGAGCTGCTGACGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 38
Oy 779 aatgtatcaggaaaaaaattccccacatatcaacg 815
Db 37 AAACGGGCGAAGAAACTCCTGTATATATCAAC 1

RESULT 11
US-09-760-485-443/c
; Sequence 443, Application US/09760485
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P1217
; CURRENT APPLICATION NUMBER: US/09/760,485
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1477
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 443
; LENGTH: 805
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (73)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (783)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-760-485-443

Query Match 5.4%; Score 128; DB 5; Length 805;
Best Local Similarity 67.4%; Pred. No. 2,9e-21;
Matches 227; Conservative 0; Mismatches 101; Indels 9; Gaps 3;
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RESULT 12
US-09-912-292-36499
; Sequence 36499, Application US/09912292
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 101
; FILE REFERENCE: PO-101
; CURRENT APPLICATION NUMBER: US/09/912,292
; CURRENT FILING DATE: 2001-07-26
; PRIOR APPLICATION NUMBER: 08/103,746
; PRIOR FILING DATE: 1993-08-09
; PRIOR APPLICATION NUMBER: 09/859,417
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 08/103,743
; PRIOR FILING DATE: 1993-08-09
; PRIOR APPLICATION NUMBER: 09/741,827
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 09/813,154
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 08/196,482
; PRIOR FILING DATE: 1994-02-15
; PRIOR APPLICATION NUMBER: 09/783,587
; PRIOR FILING DATE: 2001-02-15
; PRIOR APPLICATION NUMBER: 08/196,481
; PRIOR FILING DATE: 1994-02-15
; PRIOR APPLICATION NUMBER: 08/220,662
; PRIOR FILING DATE: 1994-03-31
; PRIOR APPLICATION NUMBER: 08/220,661
; PRIOR FILING DATE: 1994-03-31
; PRIOR APPLICATION NUMBER: 08/275,627
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: 08/345,704
; PRIOR FILING DATE: 1994-11-21
; PRIOR APPLICATION NUMBER: 09/859,662
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 08/401,881
; PRIOR FILING DATE: 1995-03-10
; PRIOR APPLICATION NUMBER: 09/782,161
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 08/790,776
; PRIOR FILING DATE: 1997-01-30
; PRIOR APPLICATION NUMBER: 60/010,803
; PRIOR FILING DATE: 1996-01-30
; PRIOR APPLICATION NUMBER: 08/799,180
; PRIOR FILING DATE: 1997-02-12
; PRIOR APPLICATION NUMBER: 60/011,618
; PRIOR FILING DATE: 1996-02-13
; PRIOR APPLICATION NUMBER: 08/803,609
; PRIOR FILING DATE: 1997-02-21
; PRIOR APPLICATION NUMBER: 60/011,985
; PRIOR FILING DATE: 1996-02-21
; PRIOR APPLICATION NUMBER: 08/971,050
; PRIOR FILING DATE: 1997-11-14
; PRIOR APPLICATION NUMBER: 60/031,038
; PRIOR FILING DATE: 1996-11-18
; PRIOR APPLICATION NUMBER: 08/975,985
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/031,221
; PRIOR FILING DATE: 1996-11-25
; PRIOR APPLICATION NUMBER: 08/985,366
; PRIOR FILING DATE: 1997-12-04
; PRIOR APPLICATION NUMBER: 09/842,827
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: 60/032,782
; PRIOR FILING DATE: 1996-12-06
; PRIOR APPLICATION NUMBER: 09/076,898
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/047,004
; PRIOR FILING DATE: 1997-05-13
; PRIOR APPLICATION NUMBER: 09/078,614
; PRIOR FILING DATE: 1998-05-14
; PRIOR APPLICATION NUMBER: 60/046,498
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	Query Match	2.88;	Score 65;	DB 5;	Length 428;
	Best Local Similarity	66.88;	Pred. No. 4.4e-06;		
	Matches 153;	Conservative	0;	Mismatches 70;	Indels
					Gaps
Qy - 132	tgtgacatttcgcatcgggaacaaactgttacacggtgggtcattgtcgtcgtcgtacg	191			
Db	188 tgcagatttcacatcgggaacagcgtgtacacacatgtagccactct-ttgtgtggccc	246			
Qy - 192	tgggctgtgagaaggtggggagccgtgcagaactcctgtgataactgtcagcctggtactt	251			

Search completed: September 10, 2001, 19:24:30
Job time: 5029 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 10, 2001, 15:40:47 : Search time 85.08 seconds
(without alignments)
5228.974 Million cell updates/sec

Title: US-08-012-269A-1
Perfect score: 2350
Sequence: 1 atgtccatgaactgctgagt.....ctttcttcgatagtagac 2350

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 324599 seqs, 9465562 residues

Total number of hits satisfying chosen parameters: 649198

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA: *
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq: *
5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2330.8	99.2	2347	5	PCT-US96-03965-1
2	768	32.7	768	1	US-08-236-918A-5
3	339.2	14.4	838	5	PCT-US94-10457-1
4	339.2	14.4	838	5	PCT-US96-03965-7
5	339.2	14.4	1415	1	US-08-236-918A-7
6	245.8	10.5	946	2	US-08-816-605-1
7	51.8	2.2	5543	2	US-08-687-080-101
8	42.6	1.8	48974	4	US-08-920-422-17
9	38.8	1.7	340	1	US-08-599-252-105
10	38.8	1.7	340	5	PCT-US96-06352-105
11	38.8	1.7	340	5	PCT-US96-06583-105
12	38.6	1.6	5053	2	US-08-685-576-2
13	38	1.6	8920	2	US-08-446-855A-1
14	38	1.6	8920	4	US-09-150-741-1
15	38	1.6	43676	3	US-09-356-952-12
16	37.8	1.6	202	1	US-08-222-177A-38
17	37.4	1.6	3681	1	US-08-571-758-3
18	37.4	1.6	3681	1	US-08-909-984A-3
19	37.4	1.6	3681	1	US-08-909-983-3
20	37.4	1.6	7868	6	5175383-1
21	37	1.6	19557	5	PCT-US92-06300-1
22	36.8	1.6	1280	3	US-09-188-930-246
23	36.8	1.6	7218	1	US-08-232-463-14
24	36.8	1.6	19557	5	PCT-US92-06300-1
25	36.6	1.6	221	1	US-08-222-177A-17
26	36.6	1.6	2997	3	US-08-486-343A-3
27	36.6	1.6	2997	5	PCT-US95-07349-3

c	28	36.4	1.5	7218	1	US-08-232-463-14
	29	36.4	1.5	16442	3	US-08-781-891-208
	30	36.2	1.5	240	1	US-08-222-177A-32
	31	36.2	1.5	870	2	US-08-420-629-9
c	32	36	1.5	191	1	US-08-222-177A-21
c	33	36	1.5	605	1	US-08-599-252-89
c	34	36	1.5	605	5	PCT-US96-06352-89
c	35	36	1.5	605	5	PCT-US96-06583-89
	36	35.8	1.5	1584	5	PCT-US92-02091-5
	37	35.8	1.5	2186	3	US-08-959-382-1
	38	35.8	1.5	8010	5	PCT-US95-11859-2
c	39	35.8	1.5	17949	4	US-09-087-465-3
	40	35.6	1.5	7970	1	US-08-135-511-31
	41	35.6	1.5	7997	1	US-08-187-453-31
	42	35.6	1.5	7997	1	US-08-562-985A-7
c	43	35.4	1.5	230	1	US-08-222-177A-16
	44	35.4	1.5	243	1	US-08-222-177A-40
	45	35.4	1.5	380	1	US-08-599-252-107

ALIGNMENTS

RESULT 1
PCT-US96-03965-1
: Sequence 1, Application PC/TUS9603965
: GENERAL INFORMATION:
: APPLICANT: Kwong, Byoung Se
: APPLICANT: Kang, Chang-Yuill
: TITLE OF INVENTION: Monoclonal antibody against human
: TITLE OF INVENTION: receptor 4-1BB
: NUMBER OF SEQUENCES: 10
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Barnard, Brown & Michaels
: STREET: 306 East State Street, Suite 220
: CITY: Ithaca
: STATE: NY
: COUNTRY: USA
: ZIP: 14850
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US96/03965
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/122,796
: FILING DATE: 16-SEP-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/012,269
: FILING DATE: 01-FEB-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/922,996
: FILING DATE: 30-JUL-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/267,577
: FILING DATE: 07-NOV-1988
: ATTORNEY/AGENT INFORMATION:
: NAME: Michaels, Christopher A
: REGISTRATION NUMBER: 34,390
: REFERENCE/DOCKET NUMBER: KWO5
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 607-273-1711
: TELEFAX: 607-273-2609
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2347 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear

Db 601 CTGATCTTCACTTCTCTCTGTCTCTCAATGGATCAGGAAAAATTCCTCCAC 660

QY 806 atattcaagaaccatttaagaagaccactgagcagctcaagaggaagatcttataac 865

Db 661 ATATTCAACCAACCATTTAAGAAGCACTGGAGCAGCTCAAGAGGAAGATGCTTGAGC 720

QY 866 tgccgatgtccacagaagaagagagagagagagagctatgagctg 913

Db 721 TGCCGATGTCCACAGCAAGAAAGAGGAGGAGGAGGCTATGAGCTG 768

RESULT 3

PCT-US94-10457-1

Sequence 1, Application PC/TUS9410457

GENERAL INFORMATION:

APPLICANT: Byoung Se Kwon

TITLE OF INVENTION: New Human Receptor and Related Products

TITLE OF INVENTION: and Methods

NUMBER OF SEQUENCES: 1

CORRESPONDENCE ADDRESS:

ADDRESSEE: Barnard & Brown

STREET: 306 E. State St., Suite 220

CITY: Ithaca

STATE: New York

COUNTRY: United States

ZIP: 14850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage

COMPUTER: IBM AT Compatible

OPERATING SYSTEM: MS DOS, Version 5.0

SOFTWARE: Special Qbasic program

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/10457

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/012,269

FILING DATE: 2/1/93

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/922,996

FILING DATE: 7/30/92

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/267,577

FILING DATE: 11/7/88

ATTORNEY/AGENT INFORMATION:

NAME: Michaels, Christopher A.

REGISTRATION NUMBER: 34,390

REFERENCE/DOCKET NUMBER: kwnh1bb

TELEPHONE: 607-273-1711

TELEFAX: 607-273-2609

TELEX:

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 838

STRANDEDNESS: double stranded

TOPOLOGY: linear

MOLECULE TYPE: cDNA to mRNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: n/a

ORIGINAL SOURCE:

ORGANISM: Human

STRAIN:

INDIVIDUAL ISOLATE: H4-1BB #1

DEVELOPMENTAL STAGE: Differentiated T-cell

HAPLOTYPE:

TISSUE TYPE:

CELL TYPE: Lymphocytes

CELL LINE:

ORGANELLE:

IMMEDIATE SOURCE:

LIBRARY: cDNA library

CLONE:

POSITION IN GENOME:

CHROMOSOME/SEGMENT:

MAP POSITION:

UNITS:

FEATURE:

NAME/KEY: H4-1BB

LOCATION:

IDENTIFICATION METHOD: Similarity to mouse 4-1BB and other

IDENTIFICATION METHOD: members of NGFR superfamily

OTHER INFORMATION:

PUBLICATION INFORMATION:

AUTHORS: Kwon, B.S., and Weissman, S.M.

TITLE: cDNA sequences of two inducible T-cell genes

JOURNAL: Proc. Natl. Acad. Sci. USA

VOLUME: 86

ISSUE:

PAGES: 1963-1967

RELEVANT RESIDUES IN SEQ ID NO: all

PCT-US94-10457-1

Query Match

Best Local Similarity 14.4%; Score 339.2; DB 5; Length 838;

Matches 537; Conservative 0; Mismatches 243; Indels 12; Gaps 4;

QY 119 agtgcctgtgcattgacatttcgccatgggaacacactgttacaacgctggtggtcatt 178

Db 14 AGTATCATACCTGTGCCAGATTTTCATCATGGGAACAGCTGTTACAAACATAGTAGCCACT 73

QY 179 gtgcctgtctagtggctgtgagaagggtggagccgtgcagaactcctctgataactgt 238

Db 74 CTGTTGCTGCTCACTTTTGAGAGGACAAGATCATTTGCAGGATCCTTTGTAGTAATGTC 133

QY 239 cagcctgttacttctgcagaaataac---aatccagctgtcgaagagctgccctcccaagt 295

Db 134 CCAGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCTCCAAAT 193

QY 296 accttccagcattagtgagacagccgaactgttaacatctgcagagtggtgacggctat 355

Db 194 AGTTTCTCCAGCGCAGTGGCAAAAGACCTGTGCATATATGCAAGGCTGTAAAGGTGTT 253

QY 356 ttccagttcaagaagtgttgcctctctacccacacgcgcagtgctgagtcattgaagga 415

Db 254 TTCAGGACCAGGAGGAGTGTTCTTCACACGCAATGCAGATGTGACTGCATCCAGGG 313

QY 416 ttccattgtctgggcccacagtgaccagatgtgaaagactgcagcgctggccaggag 475

Db 314 TTTCACTGCTGGGGCAGGATGCAGCATGTGTGAACAGGATTTAAACAGGTCAAGAA 373

QY 476 ctaacgaagcagggttgcaaacctgtagcttgggaacatttaataacacagcagttact 535

Db 374 CTGACAAAAAAGGTTGTAAGACTGTGCTTTGGGACATTTAACGATCAGAAACG--T 430

QY 536 ggcgtctgcacctggacgaactcctcttagcgaaggctctgtgcttaagaccgag 595

Db 431 GCGATCTGTGACCCCTGGCAAACTGTTCTTTGGATGGAAAGTCTGTGCTGTGAATGGG 490

QY 596 accacggaagagcgtgggtgtggaacccctgtggtgagcttctctccag---tacc 652

Db 491 ACGAAGGAGAGGAGCGTGGTCTGTGGACCATCTCCAGCTGACCTCTCTCCGGGAGCATCC 550

QY 653 accatttctgtactccagaggagagaccagggagccctcttgcaggtcccttaccctg 712

Db 551 TCTGTGACCCCGCTGCCCTGCGAGAGAGCCAGACACTCTCCGAGAGATCATCTCCTTC 610

QY 713 ttccctggcgtgacatcg---gcttctgtgctggccctgacttatttacttccctgttc 769

Db 611 TTTCTTGGCGCTGACGTCGACTGCTGCTTCTTCTCTGTTCTTCCCTACCGGTTTC 670

QY 770 tctgtgctcaaatggatcaggaaaaaaattccccccacatatccaagcaacatttaagaag 829


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; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8512
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 946 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 124..780
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 124..177
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 178..780
;
US-08-816-605-1

Query Match 10.5%; Score 245.8; DB 2; Length 946;
Best Local Similarity 68.6%; Pred. No. 6.8e-66;
Matches 385; Conservative 0; Mismatches 167; Indels 9; Gaps 3;

QY 347 gaggctattcaggttcgaagaagttgtctctctaccacaacgcgagtgtagtgc 406
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
220 GCTGTGTTTTCAGGACCAAGGAGGTCTCTCCACCAGCAATGCAGAGTGTGACTGC 279
QY 407 attgaagattccattgttggggccacagtgccacacatgtgaaaaagactgcaggcct 466
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
280 ACTCCAGGGTTTCACTGGCTGGGGCAGGATGCGACATGTGTGAACAGGATGTAAACAA 339
QY 467 ggcagagagcaacgaagcaggttgcaaaacctgtagcttgggaacatttaagtaccag 526
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
340 GGTCAAGAACTGACAAAAAGGTTGTAAGACTGTTGCTTTGGGACATTTAACGATCAG 399
QY 527 aacgtactgtgctgtgcacactgtgcacactgtctctagacggaaggtctgtgct 586
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
400 AAACG---TGGCATCTCTCGACCCCTGGACAAACTCTTCTTTGGATGGAAGTCTGTGCTT 456
QY 587 aagaccgggacacaggaagagcagtggtgtgtgacccccctgtgtgagcttctctccc 646
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
457 GTGAATGGGACGAGGAGGAGGACGTGTCTGTGGACCATCTTCAGCCGACCTCTCTCG 516
QY 647 agtaccaccatt---tctgtactccagagagagaccagagggcactccttgcaggtc 703
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
517 GGAGCATCTCTGTGACCCCGCTCCCTCGGAGAGAGCCAGGACACTCTCCGCGAGATC 576
QY 704 cttaacctgttctgtgcgtgcacatcg---gcttgtgtgtgcccctgatcttact 760
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
577 ATCTCTCTCTTTCTTTCGCTGACGTCGACTGGTTGCTCTTCTCTCTCTCTCTCAG 636
QY 761 ctctgttctctgtgtcctaaatggatcaggaaaaatccccacatatcagaacaca 820
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
637 CTCCGTTTCTCTGTGTTTAAACGGGGCAGAAAGAACTCTCTATATATTCAACAAACA 696
QY 821 ttttaagaagaccactggagcagctcaagaggaagatgtgttagtgcgcatgtccacag 880
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
697 TTTATGACACAGTACAACTACTCAAGAGGAAGATGGCTGTAGTCCGATTTCCAGAA 756
QY 881 gaagaagaagagagagagga 901
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
757 GAAGAAGAAGGAGGATGTGAA 777
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RESULT 7

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US-08-687-080-101
; Sequence 101, Application US/08687080
; Patent No. 5965427
; GENERAL INFORMATION:
; APPLICANT: Gregory Dolganov
; TITLE OF INVENTION: Human RAD50 Gene and Methods of Use Thereof
; NUMBER OF SEQUENCES: 175
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/687,080
; FILING DATE: 17-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/592,126
; FILING DATE: 26-JAN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sholtz, Charles K.
; REGISTRATION NUMBER: 38,615
; REFERENCE/DOCKET NUMBER: 4600-0111.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 101:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5543 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: 3' END OF INTRON 19 OF RAD50 GENOMIC
; INDIVIDUAL ISOLATE: SEQUENCE
;
US-08-687-080-101

Query Match 2.2%; Score 51.8; DB 2; Length 5543;
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Matches 71; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

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US-08-422-17/c
; Sequence 17, Application US/08920422A
; Patent No. 6255473
; GENERAL INFORMATION:
; APPLICANT: Vitek, Michael P.
; APPLICANT: Mitsuda, No. 6255473iaki
; APPLICANT: Roses, Allen D.
; TITLE OF INVENTION: Presenilin-1 Gene Promoter
; FILE REFERENCE: VITEKPRESNILIN
; CURRENT APPLICATION NUMBER: US/08/920,422A
; CURRENT FILING DATE: 1997-08-29
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: PALCILL NO. 3649373
: GENERAL INFORMATION:

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 10, 2001, 18:00:17 ; Search time 85.08 Seconds
(without alignments)
433.894 Million cell updates/sec

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Perfect score: 195
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 324599 seqs, 94655562 residues

Total number of hits satisfying chosen parameters: 649198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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7	30.2	15.5	4741	1 US-07-695-4728-4	Sequence 4, Appli
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13	29	14.9	4325	1 US-08-453-924-2	Sequence 2, Appli
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17	28.6	14.7	2347	1 US-08-250-740-32	Sequence 32, Appli
18	28.6	14.7	2347	1 US-07-695-4728-1	Sequence 1, Appli
19	28.6	14.7	2347	1 US-07-695-4728-34	Sequence 34, Appli
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21	28.4	14.6	1355	3 US-08-415-655-14	Sequence 14, Appli
22	27.4	14.1	1884	3 US-08-753-007A-5	Sequence 5, Appli
23	27.4	14.1	1884	3 US-09-398-496-5	Sequence 5, Appli
24	27.2	13.9	3380	2 US-09-156-425-1	Sequence 1, Appli
25	27.2	13.9	4707	3 US-09-181-706-1	Sequence 1, Appli
26	27.2	13.9	4707	4 US-09-458-791-1	Sequence 1, Appli
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C 30	27.2	13.9	6306	1	US-08-467-781-3	Sequence 3, Appli
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C 33	27.2	13.9	6306	5	PCT-US93-06160-3	Sequence 3, Appli
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C 35	26.8	13.7	1640	1	US-08-068-945A-32	Sequence 32, Appli
C 36	26.8	13.7	1640	1	US-08-442-806-32	Sequence 32, Appli
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C 42	26.8	13.7	53577	3	US-08-658-136-1	Sequence 1, Appli
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C 44	26.6	13.6	5433	3	US-08-929-329-1	Sequence 1, Appli
C 45	26.2	13.4	839	4	US-09-276-531-110	Sequence 110, App

ALIGNMENTS

RESULT 1
US-08-236-918A-5
; Sequence 5, Application US/08236918A
; Patent No. 5674704
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-LBB Ligand
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple 7.5.3
; SOFTWARE: Microsoft Word, Version #6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/236,918A
; FILING DATE: 06-May-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/060,843
; FILING DATE: 07-May-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Anderson, Kathryn A.
; REGISTRATION NUMBER: 32,172
; REFERENCE/DOCKET NUMBER: 2801-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 768 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: mu4-1BB
; FEATURE:
; NAME/KEY: CDS

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; Sequence 7, Application PC/TUS9603965
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung Se
; APPLICANT: Kang, Chang-Yuil
; TITLE OF INVENTION: Monoclonal antibody against human
; TITLE OF INVENTION: receptor 4-1BB
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnard, Brown & Michaels
; STREET: 306 East State Street, Suite 220
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/03965
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,796
; FILING DATE: 16-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/012,269
; FILING DATE: 01-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/922,996
; FILING DATE: 30-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/267,577
; FILING DATE: 07-NOV-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Michaels, Christopher A
; REGISTRATION NUMBER: 34,390
; REFERENCE/DOCKET NUMBER: KW05
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 607-273-1711
; TELEFAX: 607-273-2609
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 838 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; INDIVIDUAL ISOLATE: H4-1BB #1
; DEVELOPMENTAL STAGE: Differentiated T-cell
; CELL TYPE: Lymphocyte
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 41..805
; OTHER INFORMATION: /codon_start= 41
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Job time: 8375 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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609.676 Million cell updates/sec

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Total number of hits satisfying chosen parameters: 649198

Minimum DB seq length: 0
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Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	38	13.9	8920	2 US-08-446-855A-1	Sequence 1, Appli
4	38	13.9	8920	4 US-09-150-741-1	Sequence 1, Appli
5	38	13.9	43676	3 US-09-356-952-12	Sequence 12, Appli
6	37.4	13.6	3681	1 US-08-571-753-3	Sequence 3, Appli
7	37.4	13.6	3681	1 US-08-909-984A-3	Sequence 3, Appli
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9	36.8	13.4	19557	5 PCT-US92-06300-1	Sequence 1, Appli
10	36.4	13.3	221	1 US-08-222-177A-17	Sequence 17, Appli
11	36.2	13.2	240	1 US-08-222-177A-32	Sequence 32, Appli
12	36.2	13.2	870	2 US-08-420-629-9	Sequence 9, Appli
13	36	13.1	605	1 US-08-599-252-89	Sequence 89, Appli
14	36	13.1	605	5 PCT-US96-06352-89	Sequence 89, Appli
15	36	13.1	605	5 PCT-US96-06583-89	Sequence 89, Appli
16	35.8	13.0	17949	4 US-09-087-465-3	Sequence 3, Appli
17	35.6	13.0	7970	1 US-08-135-511-31	Sequence 31, Appli
18	35.6	13.0	7997	1 US-08-187-453-31	Sequence 31, Appli
19	35.6	13.0	7997	1 US-08-562-985A-7	Sequence 7, Appli
20	35.4	12.9	202	1 US-08-222-177A-38	Sequence 38, Appli
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22	35.4	12.9	243	1 US-08-222-177A-40	Sequence 40, Appli
23	35.4	12.9	1482	1 US-08-393-985-13	Sequence 13, Appli
24	35.4	12.9	51952	3 US-08-947-823-1	Sequence 1, Appli
25	35.2	12.8	258	1 US-07-711-615A-1	Sequence 1, Appli
26	35.2	12.8	258	5 PCT-US92-04833-1	Sequence 1, Appli
27	35.2	12.8	780	1 US-08-439-962-1	Sequence 1, Appli

28	35.2	12.8	780	2 US-08-497-535-1	Sequence 1, Appli
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33	34.8	12.7	1906	1 US-08-207-904-18	Sequence 18, Appli
34	34.8	12.7	10409	3 US-08-772-440-33	Sequence 33, Appli
35	34.8	12.7	87350	3 US-08-781-891-79	Sequence 79, Appli
36	34.6	12.6	4718	3 US-08-936-135-9	Sequence 9, Appli
37	34.6	12.6	4733	3 US-08-936-135-11	Sequence 11, Appli
38	34.6	12.6	4769	3 US-08-936-135-13	Sequence 13, Appli
39	34.6	12.6	4784	3 US-08-936-135-15	Sequence 15, Appli
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41	34.4	12.6	2347	5 PCT-US96-03965-1	Sequence 1, Appli
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43	34.4	12.6	8920	4 US-09-150-741-1	Sequence 1, Appli
44	34.4	12.6	43795	3 US-08-742-185-101	Sequence 101, App
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ALIGNMENTS

RESULT 1
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; Sequence 1, Application PC/TUS9603965
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung Se
; APPLICANT: Kang, Chang-Yuill
; TITLE OF INVENTION: Monoclonal antibody against human
; TITLE OF INVENTION: receptor 4-LBB
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnard, Brown & Michaels
; STREET: 306 East State Street, Suite 220
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/03965
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,796
; FILING DATE: 16-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/012,269
; FILING DATE: 01-FEB-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/922,996
; FILING DATE: 30-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/267,577
; FILING DATE: 07-NOV-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Michaels, Christopher A
; REGISTRATION NUMBER: 34,390
; REFERENCE/DOCKET NUMBER: KWO5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 607-273-1711
; TELEFAX: 607-273-2609
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2347 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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; Sequence 12, Application US/09356952
; Patent No. 6117663
; GENERAL INFORMATION:
; APPLICANT: Boriack-Sjodin, Ann
; APPLICANT: Margarit, S. M.
; APPLICANT: Bor-Sogi, Dafna
; APPLICANT: Cole, Philip
; APPLICANT: Kuriyan, John
; TITLE OF INVENTION: A CRYSTAL OF A RAS-SOS COMPLEX AND METHODS OF USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 600-1-228N
; CURRENT APPLICATION NUMBER: US/09/356,952
; CURRENT FILING DATE: 1999-07-19
; EARLIER APPLICATION NUMBER: 60/093,631
; EARLIER FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 43676
; TYPE: DNA
; ORGANISM: Saccharomyces cerevisiae
US-09-356-952-12

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Best Local Similarity 59.1%; Pred. No. 0.15;
Matches 65; Conservative 0; Mismatches 45; Indels 0; Gaps

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RESULT      6
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; Sequence 3, Application US/08571758
; Patent No. 5700675
; GENERAL INFORMATION:
; APPLICANT: Rubin, Gerry M.
; APPLICANT: Therrien, Marc
; APPLICANT: Chang, Henry C.
; APPLICANT: Karim, Felix D.
; APPLICANT: Wasserman, David A.
; TITLE OF INVENTION: A No. 5700675el Protein Kinase Required for Ras
; TITLE OF INVENTION: Signal Transduction
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 BUSH STREET, SUITE 3200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/571,758
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A.
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: B96-010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342

```


